Nergelle Ne

Bird

Society

1948

Nice, M.M. 1933. The theory of territorialism and its development.

Fifty Years' Progress of American Ornithology 1883.
-1933, pp. 89-100.

published by the American Ornithologists Union,

# 一年中territory,タマモル鳥モアル(丸93)

The typical territory holding birds are some of the hawks that make themselves conspicuous by special flight, shrikes, and king-fishers that perhaps do the same partly by their bold markings as well as lond cries, and the majority of passerines that advertise themselves by song.

With some of these birds the males remain in and defend their territories throughout the year - notably the English Robins (Exiltracus xubecula) and the California Shrike (Lanius ludovicianus gambeli) (Miller, '31). In both of These species there seems to be an ingrained preference for solitude.

Many territory holders remain only during the breeding season, but in some cases the males stay in the vicinity until imigration; this is true of my summer resident Song Sparrows and of warblers in Maine (F. A. Saunders '26).

Doble 19521 72 Nachtreiher Suddenverher Meisen ppgg Straglitz 767 Storold Stockenten Brantenten Granganse . Wespenbussard Goldfasenen Mantelmbure

Schwalle ?!

Kandeigh, S. C. 1934 The role of curronment in the life of birds. Ecol. Monog. 4: 300 - 419,

# 74 eastern house ween, Troglodytes adon action.

15 71 2 = 27 = western house ween, T. a. paikmani sing

p. 309. It is of particular interest, however, that the number of broods per female per season tends to vary inversely with the total population. When the total population is reduced in size, the average of broods per female is greater than when the population is large.

P.345. Other species which ordinarily migrate south in the fall may remain in their northern habitat through at least a part of the uniter if they have access to an abundant and ready source of food.

p. 353. In considering the limiting influence of average night temperature and hours of darkness on the northward distribution of the species, it appears, first, that the species decreases in alumdance before it finally disappears altogether.

p. 359 ... that lighter hirds live longer at a high air temperature than do heavier birds, except where the air temperature is extremely high. The lighter birds on the contrary, have less resistance to low air temperature than do the heavier birds. (Baird-Allen-Remsch Ilaw)

Spring migration 11+======

p. 363. From May until October, the mean maximum temperature in the wintering area becomes excessively high.

An interesting point involved here in both the spring and autumn migrations of birds, is the effect of the birds weight upon the time at which it migrates.

-- heavier hirds have a greater resistance to low air temperature than have lighter birds, while the lighter birds tolerate high air temperature for a longer time than do the heavier birds. Arguing from this, the heavier individuals of a species should arrive earlier in the spring than do the individuals of less weight: while in the autumn, the heavier individuals should be the last to go.

P. 364, The eastern house wren decreases in abundance arround the periphery of its breeding area before it finally disappears. The reason for this decrease lies in the approach of one or more factors towards the limits of tolerance.

pp. 371-372.

Rowan (1929, 1931) attempts to correlate length of day, development of gonads and bird migration. ---

Rowan thus believed that the stimulus for these migrations was furnished by hormone secretion from the gonads in spring and fall. One wonders, however, if this interstitial tissue may not also be present in the gonads of permanent resident species which do not migrate but whose gonads likewise undergo remarkable seasonal changes in size.

gonad theory 177 decisive proof 7 1974. 29+7/E

southward migration = 12) 571, castrate 69 = 1 = normal + = 1 =

migrate 7 & 50 = 4 - 7 7 77.

- P.372. たか長り、マタをケナレバ、リノロー失大のアモノフ 聖のトリカエサナフテハナーラナイが、日が知りテ、リレが出来又ヨケデハ、リレダケデ、リー島八生でをデキヌントコトトナル。
- P. 381. By migrating north in the spring and south in the autumn, the house were takes advantages of the longest daylight periods in each region and avoids the un-favorable shorter periods.

The close similarity in the distribution of the eastern house when during the breeding season and the Acer-Fagus.

Anociation is of considerable interest --- Just what the factors involved in such a correlation may be, cannot now be stated. The evidence available indicates that any influence exerted by the regetation must be an indirect one, possibly through some change in the quantity or quality of the food supply.

p. 395 Resistance to low external temperature is greater in the winter than in the summer.

P. " Limits of tolerance have been discovered for low temperature that involves average night temperature and number of hours of darkness, for ---

P. 376. There is very probably a zone of physiological discomfort before the actual limits of tolerance are reached. Birds respond more to these zones of discomfort than to the actual limits of tolerance, and adjust their behavior accordingly. The zone of discomfort would serve as a warning of the approach of dangerous conditions.

conclusions low temperature: average temperature at night : number of hours of darkness high temperature: mean daily maximum temperature THE / factor: too low and too high intensity of. solar radiation. : lack of avairable food. Too intense hotic competition lack of nesting territory and sites unfavorable physiographic features. nothern limit: low night temperature southern limit: high daily maximum temperature - competition with the Bewick ween, Thryomanes by bewicki, Southern : for right Temperature, long daily periods of darkness, short daylight periods, low intensity of solar radiation, snow, and lack of avairable food. migration : maintaining itself in a more nearly uniform and favorable curironneat throughout unitiating factor change in the metabolic or physiological state of body. inherited nerve or behavior patterns, aided by the climate is a factor of major importance in conclusion controlling the distribution, migration, abundance and behavior responses of the small passenne birds.

Leleusvaum 生活圈, 生物科的一种面, 有不良味, Technical termital termital termital termital Biosphare, 生物種見圖, son Lithosphäre, Atmosphäre, Hydrosphäre=大别事主.

Biotop, hiotic area 特殊+生活圈, 環境條件=特徵如, = adapt 35特殊,生物7季加水, リareaが大キクモルサラモトレル、林号デラフ Standort 立地 小村子に、tech. Termr アツブがままいは、手却デハ同義:=阿积本末+1, forest, steppe, tundra, etc.

"爱家"常谈的,A抱足后的产产儿,"一般的="和多anea。至凡导致的特徵是为到19楼之,要

\* Habitat (Wohnort) - 7/sp. 2~-7/community/示又特殊+分布地域,接言也以 年野外十生活園 Biotop 7 指ス、 \*colgical + tech term (\*4月はス)デ 分类を含るハ を映すれ言葉=フィネタ多テルが、ソレトハ意味がチがフ、大キタモルサフモトルが元素ないます。 大きながすけるシテクル。 電話年リアルサリカキタネスニモル

記中=1 imagor larva ++ habitat 7 第=21元1がます。 又 hunting ground + nexting ground = 军===== 大器=1,3/面卷==="1,5p.,

liotic community, Biotop=对加京东, Biotop,内容,以全部批物。京中小思鲜中 生名的又一有松的(部的, 立体的) 士意味二引行规理的言意。部物外升地的动物 animal community ++ti, community +n言案デアラハサいルア民力、アンハBiotopで料 第二概念的产,tech. term トンテラ思义鞋子

Lebensgemeinschaft, 第一根至的-bidic commonity 主意, Biotop+項係中主, 一的知识主意, Bioconose, Af In Gosamthevölkerung + 152 . (2: association +)

Lebenoverein, Lebenogemeinschaft 3/1モ モット自由+使用。第二的动: biotic community 77%又人的2000 -- >· Lebensgemeinschaft 中= 37, Lebensverein +i Bxn Tx 出来, 37至7十年至1至三对于不到

Faunule, +n言葉9头nu. 22 Niche,内各+11,

Turstaat, social life 7+2 aut, hee +1-1-17/colony 7+2, Fingregations + 219 \$ 3xxx

Tregenellschaften animal community + 37:30 31 x x x 2 2341-17/ herd + K= & PF/17/L

Fauna, Fille Species, 全体引起强加利, 又Lepidopterenfauna +F+云7\*云1 Biota, fauna a flora, 综合、

Wohndicht Vegetation = #8321 Pritate / Wohndicht +37

Lebensdicht (Ratel) Vegetation + Wahndicht der Thore 1-9-19 = enze

Bevölkungsdicht, Wohndicht Oris PRERA, Oris 200 population, 21735 1 Pa sp. + Wohndicht str.

Leitform, Prafévente, Zurücktretende, Errgäste: prédominant 生活图(Lebensbezink):生公地死及 環境区 Habitat 生物分布带 Life Zone Extractize ) 200-geographical region 暖境特容部的 (Halitat) indicator

溪流 Torrent = Back=mountain rover = Flus = plain river

stream=11+ river = 14 creek

6-18 Messy Terntory

群双群果 Community 相. fauna associate :

3票提小区 niche

出现额底 Trequency of occurrence

分布地域 distributional range (or area)

C. W. Thorntowaite: The Chinate of the acarm. Characteristics of relassification best condition - tropical rain freet. Precipitation effectiveness, 1 st/ b = 2n tropical vain forest -> tropical desent A vain forest toest grassland steppe Temperature efficiency : 11/1/2 = my Tropical rain forest - peopetral frost A' topical rain forest B températe " C' microttermal " " taiga E tundra F/ perpetual front (no regutation) Humidity Type Index. Characteristic Vegetation PE Index Wet 128 UC Humid 64-129 En subhumid 32-63 semmarial 16-31 and 1 emp. Tropical 12817F Mesothermal 64-127 Microllomal 32-63 Targor 16-31 Tundra. 1-15 Perfectivel frost ICE/=17/Indices/12/2020 30/ climatic region & Yan 2 = 3 = seasonal distribution of effective precipitation = 19 10 type vainfall alundant at all seasons
scanty in a summer (alundant in winter)
" winter ( " in summer) at all seasons = drought fr = vainy season 204 1201 possible different possible combination & t. In 20 2 200 =1 meteorologically impossible + 2127 mbg 358 1 32 / actual climatic type 54 - +12

(axting on the germantine

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c		Car.				
			Polar			.a.
	(Temperature constantly under 0°)					
		Rain and Snowfalls 1-12 months but no persistent snow-covering	Snowfalls 6-9 months with persistent snow-covering	Sparse Snowfalls for 3-6 months with persistent ice-covering	Sparse Snowfalls for 0-3 months without persistent Snow-covering	constant Maisture
(with constant moisture)	mean Annual Temperature 0-10°C Absol. Min m. below 0°C		5	9	13	Absol Minimum Temperature for 9-12 months below 0°C
	Mean Annual Temperature 0-10°C Absol. Minm. up to 0°G	2	6	15	14	Absol. Minimum Temperature for 9-12 months below o'c  below o'c
	Mean Annual Temperature  10-20°C	3	7		15	Absol. Minm. Temperation for 3-6 months below occ
	Mean Annual Temperature over 20°C		8	12	16	Absol. Minm. Touberature for 0-3 months below 0°C
Humid 2 one Semi-humid 2 one Semi-arid 2 one Arid 2 one Order Rain Period Rain Periodic Rain Equatorial Climate (Temperature constantly over 20°C)						n CABSO/M.
1 Cold insular climate 2 Insular climate 3 Warm insular climate 4 Tropical rain climate 5 Niveal climate 6 Temperate cold climate 7 Subtropical climate 8 Tropical continental climate 10 Cold dimate 11 Warm continental climate 12 Tropical arid climate 13 Cold dimate 14 Continental climate 15 Cold desert climate 16 Hot desert climate						

# 11 ユニー サイルははい グラムマ

# territon:1年時間にはっにえうすいか

p. 97. It said is the most important tem, why does the male drive out rivals of his own species only, tolerating competitors whose young will be fed the same cost of insects as his easy? Economic ornitrologists tell us that hinds in general field rether indiscriminately, thing tose insects that are nost easily available. It is only some individuals of the Homis Wren (Trogodytes addon) that the to put ail competitors out it to running.

amplested and that the nature of sex is of more infortance "on me realize. The note drives off other - makes of his corn species to keep them from intending with his family like. The male Song Sharrow courts' in his beculiar rough way neighboring "emo'ze without they clause to be unprotected. Howard mentione stolen matings" with the birds is hos studied (29: 42).

# ちょういき からしょう カイト きゃらしょうこう

#### Summary

p. 93 Terretory inclines in the mais sind isolation, and whole names "there there there is four aspects are not predict, the hird does not truly held terretory.

has been over-turbhasized, and that sin proisery in many cases place a delimite part.

Lorenz, K. Z. 1937. The composition in The bird's world.

The fack, 54:245-273

### 下うと一方里角でで

as well as to the earlogist that near birds do not recognize their corn species instructively. Let that by far the great, part of their mations, whose normal object is represented by a ferries member of the species, next be conditional to this object during the individual like of every bird.

· HIII . . . That a sound of the control of . I the state of some in the mail with sont it is as as it will III Jet or stimule, In all this - in the property of the second ... on and in the sound liter. If who to remot to ato heres. But .. in the telly in solvented, the Malladia ; l'e risse, tat il, ta féloniementes - 1 mile, and soil die. occipied as a in ite in in al, or not object, proposition I de ter tie Mille : :: July and Tabird left = every ale ... ... d'advals of its spicies. el. et did Te und hand-road Graat or. Cui, Parent and other pirote, for no me ded wir to their leafance instant of the section. In a very fine costs to costs, the bird whose sexual rections were then directed toward man, first a accepted a fellowmember of the species which, however, was always regarded as a rotter post substitute for the beloved I man and was instantial abondoned whenever the latter, appeared.

# 11.11 . 50 / 45 0

e in the control to a very definite

unit of individual period which

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... The solution of the solution of the solution of the solution of or

The restance of represent of the object of a most one is a source of the lace become established, at one is the object that be not the Museous destablished, the object the obje

insprinting is essentiables the same as in star cases of conditioning, especiable in associative hearing.

To explain the process in question as one of as institute hearing, one would have to assume that he costion is, in some rudimentary stage, air and present at the time when its object is irrere, sie's determined, an assumption which object is irrere, sie's determined, an assumption which object is irrere, sie's determined, which object is irrere, sie's determined, and assumption which object is irrere, sie's determined, and assumption which object is irrere, sie's determined,

thom whom the slimili which influence the conditioning of the seation are issuing, does not execusive, the conditioning tunction as an object of the rection. In mone cases it is the object of the young kinds beganner reactions, or the forestic mechanism in the other of the reactions directed to be breather composition, that irreversity determines the conditions which, more than a year rater, will release the copulating reactions in the mature being this is what we mught call a subject and extends it is conditioning to the species and extends.

Les de la contraction de la faction de la genting, les de la conscience de

# Monthalli-Lorenz 1777-13-

#### ヲァチメデオク

- 1. instinctions Haction トイリをハル Her off son ノーロデアルカヨミレス こかし Heller action ディッテキーハルル ハル ならなっている からしまれいテハルルル しょうでん アルイハ 寛本 ディル 行わりててし 行もりすっし
- 3、ソノをしていくとく ソノを出るのですられているからでするにできます。またり、またり、アルギーでは、インリカンではは、またり、またい、ないではないでは、これでは、これでは、これでは、これでは、これでは、「いく」では、ノージャースル、「いく」では、ハージャースル、「いく」では、ハージャースル、「いく」では、ハージャースル、

nille, es mande la amorte perces multiples

of The line to the large that for it, or a recommendation of the large that for it, or a recommendation of the section to the section to the section to the section to the section of the large transfer possible simplified and the miller occurred improbability. The improbability or the improbability of t

#### Instinction installen

p. 256. 1. . Et is a well-known that that this kind of initiating morement in social acina is presfectles understació la la féloui-muilers oi The species. A feur de de musir la said about this so called understanding. On ming one arrival leginning to proton sons at on and theretze intitie a filler miller on it Hock or herd to do likerise, "hi havi. objectively is promise to experie an instit invitation on the post of the Mond underdant to explain its telestei. La iraccue, inquerir, on étuiels sécuris à mitalien is réalle lasses, very closely meemble. Fall very direct transmitting of mooder from one individual to another which we can be often desired in ourselier. The contagions montones of chairie, yawning and the line, st pite sight as. very different from the confirmed design out on transmilled in a similar war is distingly, ust, being also interited posissions of the appear.

iffin a side of a combanella to Trem. In social orientals all man all man and all and a side of the state of

#### mouss reaction

b. 256. There is no sharp boundary hime butwiese The simple transmitting of exception, as we more say, My contagion and releasing ections in the sixt estras of the word, Dishorting to a certain reaction of a follow-member of the species by reacting in the read some way is evidently collecte innate, we be on therefore, to amount is existence d'innate bercettory palliones corresponding to contain cets à stimuli amonding the individual this slowing the resulting, an assumilition which we have to nate in all cases where an uniconditioned reaction is relational un so specific a manuer. By it eschetten of This kind of innata perceptory pollers, aller any instructive reaction in a social species more the appointed to the sicondain and nové social. task of relacing like readions in the fetonmicenter of the fleck or hard.

# 'soldelie reaction

public The contention of reference and contention once heigh and the distriction of the time once heigh and the districtions an one once it is to the distriction of the distriction of the predominal of the allowables from the resulting of the distriction. The results refreshed, This, tells and the distriction of the

# interest in the flock

5.257 The infortunce of taloung to ing synchronomie in existe ? all species in it in flocks, so that it is no i - ler that the initiating monuntials à taling la air laire Mainré a soucial tunitien au releaun: in social linds. Then Transmit " suscition world or trom one hird to the other until, after an interval of mutual stimulation, be treet of te whole reaction is so far low. est that the final stimulation isseems trom the first burd actually taling wins, is some the carried ale indentiser's of the flock to follow. See "in Graying Goose this hind of materal stimulations is in important fort flocico certaining nory randy actually take The air much more often their others which consist of one a les direct, The individual bird southing out specific stimulation receives it back with interior in the fellow-includers of the foch and it is The interest that increases with their miles,

in isolated in the electric of its decomes restructed by what is not in the electric restruction of the electric restructions of the electric restructions of the electric restruction of the electric restruction of the electric restruction of the electric restruction of the electric restriction of the electric

# 人間トキがかりますまうではノチがイ

p. 259. The second possibility lies in the differentiation of a specific immate percentory patterne for every single one of the estimes on the part of the agent, and also on the part of the particult in receipt of the act on a, in the différentiation of a minurer separately elicitud each of their, The string factor which a wine the economistant enough on of the several instinctive actions thus the mit he against ut air, text in the strict of the reactions willing by representing the issuince station commer to The different sets of volcoming siting amoise enery simple montion to its word it conclu predate inned ind. The ogent as a wint nesd not, even in the voquest i.a. I contra either of the survival value of it's art one or -It i identity of voir neutral algorit. The said in the agentl's world need not be was sented as that hind of which in sporce and time which we are occustomed to colla min,

it only with and largery every one of the actions which is a largery of the and all the actions of the action of the actio

# 112x1:11 , 600.

p. 250. In all caises where inco. a supprishe of the single instruction auts can le provide we have reason: " Time Tat the tem. .... of the species, is be existed as a difficulty un every 21 animentalle en avoile voil-, mile, The most souliar role which The hours in of the epicies them hours in the agents werein being perceited no one Thing when their This The circle of one in the and as a different once istant le la trait à la comme hai besce terried Met of a "horning by Tracser. realley/iii. The German word, teamber, means a fellou ut is our et je so for a: concentie but our instructor mind or occupation, such a l'entine or sisi. - (Jogdkumpen, Sauftrupen),

# E, a / My; I = ...

selve mierrant, je marille. dat i . joque miguitaire midet and l'innumation de rein instruktion unter soller l'andien de soiré collement mainsultains sin ministe des tur aber vir sein unique Vost. : 1 Geg. soit se al'se: in divise, i de le farat ples disses des les erkinner isolia. I jana. In man la la la la considéra. ditou it journe. wit die les mon dit que pour dirigt. midet als in en Man, Mil. die lass es die i is. aut die it, tie ster sunister willen bereiter durch dily nessen ilitat ambit. Hingipe bring. .. genne der alle. i. .. itte die auf den Atgenossen lezinglicher Tillerichen sen minister, venient sie, ver instantie et isolicit, in misschlicher Alive in always. kina.

# Imprinting & Spranning

P. 169. Die teine telescher elstens die Bastimung des spileren Verlettens zu einen lettimut. i Sittimul II. Entegeness durch eine Barinflussen gerell aufer, und zwar 150 den Hilgenessen I., is eit len bie breunsibilität delses Bestemmungstragunges, bringer die Enterichie gestielle gestielle de State in ander 1900 enterichen bestellt genegen, die zur der körferlichen bestellt ungenigen, die zur der körferlichen bestellt ungenigen, die zur der körferlichen bestellt ungehöhre Lehenut sind.

り、弱すくかいはかにはいれるといい、このからするいい、 1た、26月間=かつストリコデンのからいからずない。 1、136日をモドヘオトラモ、ソンクロロタウタリング 第アクタチ、マンノエンにいるがはにかる デアリール いり、ノコニニができない。

このこうかり、人名多多のカリーノーラテル

コノなす契約トイケットを1まを1を=コッティガック、Nextiglical Teras デハ、コノロすなにからいかがます。チェノンがカリンプリー

Vor Stocksville, Toy diasen must be from Kara.

The aus expenses Enforming version in John die

Jungvogel, die not wenge Stonden hinderede

three Mutter madigues für sind, ihren he hitelieben

nicht mehr auf den Menschen ille trager könner.

# Imprinting 1 10/5/32/25779 76/32/3/5/2019

Estima e gentherister : inhint to the housen

1 Schouna e ührivdieduelle to 1+17, fry 1211 1100

14

p. 172 Dals die bei dem romalen artgemissen Progungsvergning gillingt, ist schan munderhar gerug; höchst merhwirdig ist es aber, daß der com Monschen aufgreigene und auf Mensch ungestelle Vogel seine afgerossenherüglichen Triebbandburgen nicht gegler einen Meuschier, sonderne gegne die 1st Homo sahieux mobiles. So richtet eine Dohle, der ein Mensch den Elterntumpan ersetzte und die vol'slandig Monschen vogel geworden ist, ihre erwachenden geschlochthicken Trieir nicht stwa gegen der trüherzu Elternkumpan, sondern vielmehr mit der vellhommenen Umberschenbarkeit des Siehl'erliebens qu'nz p'étaliete gegen irgend einen verhältnismäßig fremden Menschen, irgend eince Geschlechili, ganz vicher aber gegen einen Manschen, Es selvent sogar; als st

der freihere Elle, nkompan als "sitte nicht"
in Erwähung häme. Woran aber bestimmt be
ein Veget wesere Atgenessen als her when
there harme soci eine ganza Reihe hechintersssenter frage. der Bearing!

# t= 1'aughterence Awslése-Schema=+1771,5%

P. 173. Angelmenes Selema und erworkenes Selmme vines Artgenessen dikden unter naturlichen Umständen eine funktionelle Einheit,

はりないないです。カカラス、コンドンタリスではいいではサレルフラウレ、

ネーノのは、Grangasseノヒナ、アルのトーがは、サインのアナイラカラン、「そからです。

P.165、29シテナイタセナタ、ロンラライノヒナタハンタ のおいないかいんに、中ハスレンリ、コースルに、 214 iR34ハ、コモノモ、ルライトナトのレンクニスルの ーは、アケダンントトスル、こかに

Dan jungen Gönschan fällt as gar nicht ein, in den beiden Alten Artgenossen zu sehen. Es renut pühind davon, and wenn zufalling ein Mensch vorüberkommt, so sehlight es sich diesem an: es hält ehen

die Menschen dir seine Eltere. Des perteren rührt Minrott aus, daß die Unterschiebenst eines Gönschens ingt, werne mar in sefert rach dem Herswanchmen was dem Protiere in einen Suck Seele, so dah, as de Menschen erst gar nicht zu sohre bekennet.

7=1131. Stockenter, E.

P:17な、前は、人口のはいい、トラフラー(の: 山川、、・・ 高いすから)を、人工のりで、カエ、シ、カエ、シ、カエリンを、ナ・・・・人では サンカス

1179. イベノグーー ロン、ロロー トコログリーははいいいに ニタアトハナックノデアル、

127 2 ch took Taring and a sistem of her

Box.

Genou vie die richter l'illemetter qui

ich auf das Pfleifan hin zu den Entlern zurück und wiederholte das langsame Waggehen unter neuerlichem Quaken, und jetzt setzte sich. der ganze Zug prompt in Beweging und kam dicht autgeschlossen hinter mir her. Von da at folgten mir die Enten fast genau so eifrig und sicher nach, we sie es bei ihrer richtigem Mutter getan hätten. Daß aber für die junge Stockente der Mutterton das wesentliche Merkunal des Multerkumpans ist und daß sie eich das Anssehen des Kumpans individuell einprägt, wird durch den Fortgang des Versuches wahrscheinlich gemacht, Zunächst durfte ich nämlich nicht zu guaken authören, sondern begannen die Kinder nach einiger Zeit mit dem Pfeifen des Verlassenseins. Erst als sie älter wurden, war ich auch dann der Mutterhumpan, wenn ich schwieg.

The Role of Territory in Bird Life Amer. Midland Naturalist, 26:441-487.

只441、考キハジメニ

The theory of territory in bird life is briefly this: that pairs are spaced through the pugnacity of males towards others of their own species and sex; that song and display of plumage and other signals are a warning to other males and an invitation to a female; that males fight primarily for territory and not over mates; that the owner of a territory is nearly invincible in his territory; and finally that birds which fail to obtain territory form a reserve supply from which replacements come in case of death of owners of territories.

bird,

= territory=10: 16 = 791, complete
bibliography 77439.

Brückner, G. H: 1933. Untersuchungen zur Tiersoziologie, insbesondere zur Auflösung der Familie, Zeitsch. für Psychologie, 128:1-110.

p. 20 Hat aber ein fremdes Küsken die herrschenden Komplex-merkmale, so geht es reibungsloo in die gestalthaft erlebte Familie ein. Die Konsequenz dieser Anschauung ist, daß die Glucken ihre Kücken nicht individuell kennen, und das ist ja wegen der kollektiven Struktur des Gynopädiums auch biologisch nicht erforderlich.

P.27. たりき=サラサンタ 別はガナナバ ヨカチェルユケガ、ヨカチョレスト
アレバ、サッサト R ユテティセノ別は1方へ行かテンマン、バ
die Gesamtheit alles, das Individuom nichts
sei!
ソノヨサーモ ヨ イアサル すばからい シナケルにナラナイノラ・
コライクコトタ おん 国 カリカエス かきこうスカ、5季島 見コテル

り、29、病気ニナッドモ、アラコル努力をリテクセノモノトーショニ 行動スルー・・・・・大学を強ノクマヨ鬼イムスーーー Ob das Kücken die Krankheit übersteht oder nicht, läßt die Familie unbeteiligt. Sie hält sich sogar dann nicht zu dem leidenden Tier, wenn ex nicht mehr folgen kann. Auch der Anblick des sterbenden Kückens übt auf die Sozietätsgenossen keinerlei Wirkung aus.

p.30. es versteht auch den Krankheitsprozeß nicht einmal in dem Sinne wie es eine Gefahrsituation versteht.

病気/モノヤ verungliickte Kiickenがイングメラレル、コトモ君ナー

P.35. Kämple ヨヤル、Rangordnungがキマルトイカコトハ イヤラノ1の=オをイ=individuell=、10人的ナラは311か" デキティル、トイクコトラ"アル、

P.36. ツをはノー書はイモノハ、ニゲ出シティの数ニナリ、リコニ自由する出ショラヨカリソクナモノダが、リカイクコトリシナイ

中39 ヨリカラ 入しランタ Kilcken 1 121 Kilcken = ハンメン キトンド 独神 ロニティル、ヤガラ Rangordnungskämpfeがハ ジョリ、ハンメテ、リンSocial status がキアル p. 45. Exglucke + Kücken 15-38 = R 13# 17 =, 11 11

En + gynopädiale + E1 = 11+1

p.50 Lebensraum influence

モロイト20デル、集中からなり dispersionshemmend=ハタ

con=, Raumibersichtlichkeit "Raumenge + 107+= dispersion = + Entix, Raumunübersichtlichkeit " Raumweite + 2 i' 24 = 4 + 5 = 1797.

P.67. Sympadium = 1. Konzentrations pol od. Leittier +

17 = 15 + 1. P=-1: 135+ = 1=7 p. pol 5+15, 20 i

-3-555=1+5+1. Ry Stall 35 50m12 [1

P.68 記島が17171717 Kinckenn, lautem Knall ト Gleichgewichtsverhust 12計二記称子元サイイ.

P.76. 交多、ノ言奉アトランフ=モカカワラン"、Kaspar Hanser 1. peilebenden Kücken コリモ、スラトイな文が幸をカック

P.70 . 引ing E 17 Glucke がついす、近1出スコトアリ アタカモ ケガing Kücke が入いティルントク、コノ大窓にサ、Das gilt für alle Societäten aller Tierarten トアリ、 一大革入い、谷行7兄のユー 1.81 Dir 7 24., 3 2117 21 Die armen Waisen trotteten aber wochrenlang hinter der anderen Familie her, bis auch deren Kinder, selbständig gemacht waren; daranf schlug die ganze gesellschaft oich zu einer Rotte zusammen, nunmehr eine Bache mit 9 Frischlingen.

=7+11 for \$3.1 Kinchen 7 + 1 = 17, 70 condition 1

Fint #36 in " - Schwäne erkennen sich genau

am Gesicht (Heinroth) und nehmen fremde

Kinder nicht in ihren Verband auf, ---

p.92. ### if # = 48 tin 1 = 11 to 17 Espinas 12 #

17 = 3 8 ti. Besite- und Eigentumoverstellungen

beim Muttertier zu unterstellen, ist Ausfluß von

Phantasie. Beim Tier sind bestimmt in dem

Mutter-Kindverhältnis Eigentums- ja auch nur

Besitzvorstellung nicht beteiligt. 127

127 Katz (D. Katz, 1926, Sozialpsychologie

der Vögel. Ergelt. d. Biol. Berlin, S. 464)

7 31 17 17 10.

Die bloße Abstammung von derselbere Mutter erkläst natürlich nicht einen derastigen Zusammenhalt, es muß ein psychologischer Faktor, die Freude am Zusammensein mit den anderen, hinzukommen.

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